

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Original) A gene targeting vector for introducing an exogenous gene into the ZO-1 gene region in a non-human animal, wherein the vector comprises the exogenous gene and an entire or partial region of the ZO-1 gene.

2. (Original) The vector of claim 1, comprising a structure in which the entire or partial region of the ZO-1 gene is placed upstream and/or downstream of the exogenous gene.

3. (Original) The vector of claim 2, wherein the partial region of the ZO-1 gene comprises exon II or a portion thereof.

4. (Original) The vector of claim 3, comprising a structure in which either one of the DNA fragments in (a) and (b) below is placed at each side of the exogenous gene:

- (a) a 1.5 kb Bsp1286I-Bsp1286I fragment comprising a partial exon II of the ZO-1 gene and its upstream, and an 8.5 kb PstI-BamHI fragment located downstream of exon II;
- (b) a 5.1 kb PstI-BsrDI fragment comprising a partial exon II of the ZO-1 gene and its upstream, and a 3.9 kb PstI-SphI fragment located downstream of exon II.

5-6. (Cancelled)

7. (Currently Amended) The vector of claim 1 ~~or 5~~, wherein the vector is used for generating a non-human animal expressing an exogenous gene or a non-human animal cell expressing an exogenous gene.

8. (Currently Amended) The vector of claim 1-~~or 5~~, wherein the vector comprises in the upstream of an exogenous gene a promoter capable of transcribing the exogenous gene.

9. (Currently Amended) The vector of claim 1-~~or 5~~, wherein the vector further comprises a marker gene expression cassette.

10. (Original) The vector of claim 9, wherein the vector comprises a structure in which an exogenous gene is placed adjacent to the downstream of a marker gene expression cassette.

11. (Currently Amended) The vector of claim 1-~~or 5~~, wherein the exogenous gene is a marker gene expression cassette.

12. (Previously Presented) The vector of claim 9, wherein the marker gene expression cassette is a drug resistance gene expression cassette.

13. (Original) The vector of claim 12, wherein the drug resistance gene expression cassette is a DNA fragment comprising β -geo.

14. (Currently Amended) The vector of claim 1-~~or 5~~, wherein the non-human animal is a mouse.

15-22. (Cancelled)

23. (Previously Presented) The vector of claim 11, wherein the marker gene expression cassette is a drug resistance gene expression cassette.

24. (Previously) The vector of claim 23, wherein the drug resistance gene expression cassette is a DNA fragment comprising β -geo.